

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4728	access\$4 near5 (multipl\$4 plural\$5 two) near5 database\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/14 14:05
L2	1590903	(access\$4 near5 (multipl\$4 plural\$5 two) near5 database\$4) near5 (multipl\$4 plural\$5 two group\$3) near5 user\$4 access\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/14 14:04
L3	709	(access\$4 near5 (multipl\$4 plural\$5 two) near5 database\$4) near5 (multipl\$4 plural\$5 two group\$3) near5 user\$4 near5 access\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/14 14:04
L4	605	(access\$4 near5 (multipl\$4 plural\$5 two) near5 database\$4) near5 ((multipl\$4 plural\$5 two group\$3) near5 user\$4 near5 access\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/14 14:04
L5	60	((access\$4 near5 (multipl\$4 plural\$5 two) near5 database\$4) near5 ((multipl\$4 plural\$5 two group\$3) near5 user\$4 near5 access\$4)) and (access\$4 near5 definition\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/14 14:04
L6	14	(database\$4 near4 access\$3 near5 table\$3) same ((multipl\$4 group\$4) near5 user\$4 near10 (multipl\$4 group\$4) near8 database\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/14 14:04
L7	31	grant\$4 near5 access\$4 near5 databas\$4 near5 group\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/14 14:05
L8	4	((((access\$4 near5 (multipl\$4 plural\$5 two) near5 database\$4) near5 ((multipl\$4 plural\$5 two group\$3) near5 user\$4 near5 access\$4)) and (access\$4 near5 definition\$4)) and (access\$4 near5 (multipl\$4 plural\$5 two) near5 database\$4 near5 (control\$3 administrat\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/14 14:04
L9	0	grant\$4 near5 access\$4 near5 databas\$4 near5 group\$4 same meber near5 profil44	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/14 14:05

L10	0	grant\$4 near5 access\$4 near5 databas\$4 near5 group\$4 same member\$3 near5 profil44	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/14 14:05
L11	0	grant\$4 near5 access\$4 near5 databas\$4 near5 group\$4 near5 member\$3 near5 profil\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/14 14:05
L12	1	access\$4 near5 (multipl\$4 plural\$5 two) near5 database\$4 same member\$4 near5 profil\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/14 14:06
L13	114	new near5 member\$4 near5 profil\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/14 14:06
L14	89	13 and 2	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/14 14:07
L15	0	4 and 14	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/14 14:07
L16	0	3 and 14	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/14 14:07
S1	3074	access\$4 near5 (multipl\$4 plural\$5 two) near5 database\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/14 14:04
S2	1261314	(access\$4 near5 (multipl\$4 plural\$5 two) near5 database\$4) near5 (multipl\$4 plural\$5 two group\$3) near5 user\$4 access\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/14 14:04
S3	473	(access\$4 near5 (multipl\$4 plural\$5 two) near5 database\$4) near5 (multipl\$4 plural\$5 two group\$3) near5 user\$4 near5 access\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/14 14:04

S4	413	(access\$4 near5 (multipl\$4 plural\$5 two) near5 database\$4) near5 ((multipl\$4 plural\$5 two group\$3) near5 user\$4 near5 access\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/14 14:04
S5	46	((access\$4 near5 (multipl\$4 plural\$5 two) near5 database\$4) near5 ((multipl\$4 plural\$5 two group\$3) near5 user\$4 near5 access\$4)) and (access\$4 near5 definition\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/14 14:04
S6	18	grant\$4 near5 access\$4 near5 databas\$4 near5 group\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/14 14:04
S7	63092	(group\$4 multipl\$4) near5 user\$4 access\$4 near5 (grant\$3 set\$4) near5 databases	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/17 11:09
S8	38	(group\$4 multipl\$4) near5 user\$4 near5 access\$4 near5 (grant\$3 set\$4) near5 databases	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/17 11:10
S9	178	access\$4 near5 (multipl\$4 plural\$5 two) near5 database\$4 near5 (control\$3 administrat\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/17 11:15
S10	2129	database\$4 near4 access\$3 near5 table\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/17 13:57
S11	126	(database\$4 near4 access\$3 near5 table\$3) and ((multipl\$4 group\$4) near5 user\$4 near10 (multipl\$4 group\$4) near8 database\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/17 13:59
S12	10	(database\$4 near4 access\$3 near5 table\$3) same ((multipl\$4 group\$4) near5 user\$4 near10 (multipl\$4 group\$4) near8 database\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/14 14:04

S13	4	((access\$4 near5 (multipl\$4 plural\$5 two) near5 database\$4) near5 ((multipl\$4 plural\$5 two group\$3) near5 user\$4 near5 access\$4)) and (access\$4 near5 definition\$4)) and (access\$4 near5 (multipl\$4 plural\$5 two) near5 database\$4 near5 (control\$3 administrat\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/12/14 14:04
S14	51	(add\$4 put\$4) near5 databas\$3 NEAR5 user\$4 near5 group\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/17 14:19
S15	362	databas\$3 NEAR5 user\$4 near5 (access\$4 control\$4) near5 table\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/17 14:20
S16	29	(generat\$4 creat\$3 develop\$4) near5 databas\$3 NEAR5 user\$4 near5 (access\$4 control\$4) near5 table\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/17 14:29
S17	2	"6275825".pn. and (access\$4 near5 database\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/17 14:30
S18	1	"6275825".pn. and (request\$4 same access\$4 near5 database\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/17 14:34
S19	0	"6275825".pn. and (server\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/17 14:33
S20	1	"6275825".pn. and (user\$4 near10 request\$4 same access\$4 near5 database\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/17 14:34
S21	1	"6275825".pn. and (user\$4 near7 request\$4 same access\$4 near5 database\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/17 14:41

S22	2	"6275825".pn. and (database\$3 same (information data))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/17 14:41
S23	1	"6275825".pn. and (retriev\$3 same database\$3 same (information data))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/17 14:45
S24	2380224	connection tempalt\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/17 14:45
S25	23	server\$3 near4 connection\$4 near4 templat\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/03/17 14:46
S26	3694	database\$4 near5 (access\$4 control\$4) near5 (list\$4 document\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/15 15:17
S27	1906	S26 and (access\$5 near5 database near5 list\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/15 15:38
S28	412	S27 and ((user\$4 client\$4) near5 (request\$3 requir\$4) near5 access\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/15 15:40
S29	37	S27 and (add\$4 near5 user\$3 near5 group\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/15 15:42
S30	0	"56675782".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/16 09:57
S31	0	S30 and (access\$4 near5 request\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/16 09:58

S32	2	"5675782".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/16 09:58
S33	2	S32 and (access\$4 near5 request\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/16 09:58
S34	1	S32 and (access\$4 near5 request\$4 same database\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/16 10:27
S35	0	S32 and (retriev\$4 near5 server\$4 near5 information)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/16 10:13
S36	1	S32 and (retriev\$4 same server\$4 same information)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/16 10:13
S37	0	S32 and (retriev\$4 same server\$4 same information)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/16 10:13
S38	1	S32 and (entity\$4 same database\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/16 10:43
S39	0	S32 and (transmit\$4 same ACL\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/16 10:44
S40	0	S32 and (accesst\$4 same ACL\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/16 10:44
S41	1	S32 and (access\$4 same ACL\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/16 10:45

S42	0	S32 and (retriev\$4 same ACL\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/11/16 10:44
S43	66245	access\$4 near5 database\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 15:58
S44	66245	access\$4 near5 database\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 16:43
S45	4983	S44 and (access\$4 near5 (list\$4 tabl\$3)) near5 database\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 16:05
S46	60	S44 and (access\$4 near5 (list\$4 tabl\$3) near5 database\$4 near5 (respectiv\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 16:06
S47	17	S46 and (access\$3 near5 typ\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 16:08
S48	1	S47 and (add\$4 near5 group\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 16:08
S49	892	access\$4 near5 database\$4 near5 user\$4 near5 (tabl\$4 list\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 16:15
S50	8	S49 same (respectiv\$4 near5 database\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 16:25
S51	94	S49 and (respectiv\$4 near5 database\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 16:32

S52	28	S49 and (respectiv\$4 near5 database\$3 near5 user\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 16:42
S53	57	user\$4 near5 access\$4 near5 database\$4 near5 control\$4 near5 list\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 16:46
S54	19	(group\$3 multipl\$4 distribut\$4) near5 database\$4 near5 control\$4 near5 list\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 16:45
S55	0	S53 and S54	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/29 16:45
S56	0	S53 and (member\$4 near5 profil\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 16:48
S57	12	S53 and (member\$4 near5 list\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/29 16:48
S58	2	"6085191".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/29 17:17
S59	0	S58 and (access\$4 near9 databass\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/29 17:17
S60	2	S58 and (access\$4 near9 databas\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/29 17:17


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1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 [Special issue on knowledge representation](#)

Ronald J. Brachman, Brian C. Smith

February 1980 **ACM SIGART Bulletin**, Issue 70

Publisher: ACM Press

Full text available: [pdf\(13.13 MB\)](#) Additional Information: [full citation](#), [abstract](#)

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were two useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

3 [Level II technical support in a distributed computing environment](#)

Tim Leehane

September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services**

Publisher: ACM Press

Full text available: [pdf\(5.73 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

4 [Secure and selective dissemination of XML documents](#)



Elisa Bertino, Elena Ferrari

August 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5

Issue 3

Publisher: ACM Press

Full text available: pdf(678.34 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

XML (*eXtensible Markup Language*) has emerged as a prevalent standard for document representation and exchange on the Web. It is often the case that XML documents contain information of different sensitivity degrees that must be selectively shared by (possibly large) user communities. There is thus the need for models and mechanisms enabling the specification and enforcement of access control policies for XML documents. Mechanisms are also required enabling a secure and selective dissemination ...

Keywords: Access control, XML, secure distribution

5 Data base directions: the next steps



John L. Berg

November 1976 **ACM SIGMOD Record**, **ACM SIGMIS Database**, Volume 8, 8 Issue 4, 2

Publisher: ACM Press

Full text available: pdf(9.95 MB)

Additional Information: [full citation](#), [abstract](#)

What information about data base technology does a manager need to make prudent decisions about using this new technology? To provide this information the National Bureau of Standards and the Association for Computing Machinery established a workshop of approximately 80 experts in five major subject areas. The five subject areas were auditing, evolving technology, government regulations, standards, and user experience. Each area prepared a report contained in these proceedings. The proceedings p ...

Keywords: DBMS, auditing, cost/benefit analysis, data base, data base management, government regulation, management objectives, privacy, security, standards, technology assessment, user experience

6 Special issue on prototypes of deductive database systems: The CORAL deductive system



Raghu Ramakrishnan, Divesh Srivastava, S. Sudarshan, Praveen Seshadri

April 1994 **The VLDB Journal** — **The International Journal on Very Large Data Bases**, Volume 3 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(3.03 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

CORAL is a deductive system that supports a rich declarative language, and an interface to C++, which allows for a combination of declarative and imperative programming. A CORAL declarative program can be organized as a collection of interacting modules. CORAL supports a wide range of evaluation strategies, and automatically chooses an efficient strategy for each module in the program. Users can guide query optimization by selecting from a wide range of control choices. The CORAL system provides ...

Keywords: deductive database, logic programming system, query language

7 XML access control: Access control of XML documents considering update operations



Chung-Hwan Lim, Seog Park, Sang H. Son

October 2003 **Proceedings of the 2003 ACM workshop on XML security**


Publisher: ACM Press

Full text available:  pdf(298.78 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As a large quantity of information is presented in XML format on the Web, there are increasing demands for XML security. Until now, research on XML security has been focused on the security of data communication using digital signatures or encryption technologies. As XML is also used for a data representation of data storage, XML security comes to involve not only communication security but also managerial security. Managerial security is guaranteed through access control, but existing XML acces ...

Keywords: XML document, XML update, access control

8 [Special issue: AI in engineering](#)

 D. Sriram, R. Joobbani
April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available:  pdf(8.79 MB) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

9 [iMobile EE: an enterprise mobile service platform](#)

Yih-Farn Chen, Huale Huang, Rittwik Jana, Trevor Jim, Matti Hiltunen, Sam John, Serban Jora, Radhakrishnan Muthumanickam, Bin Wei
July 2003 **Wireless Networks**, Volume 9 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  pdf(2.90 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


iMobile¹ is an enterprise mobile service platform that allows resource-limited mobile devices to communicate with each other and to securely access corporate contents and services. The original iMobile architecture consists of devlets that provide protocol interfaces to different mobile devices and infolets that access and transcode information based on device profiles. iMobile Enterprise Edition (iMobile EE) is a redesign of the original iMobile architecture to address the security, ...

Keywords: content transcoding, middleware, mobile devices, mobile enterprise, mobile multimedia services

10 [Continuous program optimization: A case study](#)

 Thomas Kistler, Michael Franz
July 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 25 Issue 4

Publisher: ACM Press

Full text available:  pdf(877.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#),
[review](#)

Much of the software in everyday operation is not making optimal use of the hardware on which it actually runs. Among the reasons for this discrepancy are hardware/software mismatches, modularization overheads introduced by software engineering considerations, and the inability of systems to adapt to users' behaviors. A solution to these problems is to delay code generation until load time. This is the earliest point at which a piece of software can be fine-tuned to the actual capabilities of the ...

Keywords: Dynamic code generation, continuous program optimization, dynamic

reoptimization

11 [A taxonomy for secure object-oriented databases](#)



Martin S. Olivier, Sebastiaan H. von Solms

March 1994 **ACM Transactions on Database Systems (TODS)**, Volume 19 Issue 1

Publisher: ACM Press

Full text available: pdf(3.05 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper proposes a taxonomy for secure object-oriented databases in order to clarify the issues in modeling and implementing such databases. It also indicates some implications of the various choices one may make when designing such a database. Most secure database models have been designed for relational databases. The object-oriented database model is more complex than the relational model. For these reasons, models for secure object-oriented databases are more complex than ...

Keywords: formal security models, information security, multilevel secure databases, object-orientation

12 [HTTP Cookies: Standards, privacy, and politics](#)



David M. Kristol

November 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 2

Publisher: ACM Press

Full text available: pdf(390.38 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

How did we get from a world where cookies were something you ate and where "nontechies" were unaware of "Netscape cookies" to a world where cookies are a hot-button privacy issue for many computer users? This article describes how HTTP "cookies" work and how Netscape's original specification evolved into an IETF Proposed Standard. I also offer a personal perspective on how what began as a straightforward technical specification turned into a political flashpoint when it tried to address nontech ...

Keywords: Cookies, HTTP, World Wide Web, privacy, state management

13 [Draft report of the Federal Internetworking Requirements Panel, and selected responses](#)



Diane Fountaine

April 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 2

Publisher: ACM Press

Full text available: pdf(4.15 MB)

Additional Information: [full citation](#), [index terms](#)

14 [Computing curricula 2001](#)



September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available: pdf(613.63 KB)

html(2.78 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


15 [A Comparison of the Relational and CODASYL Approaches to Data-Base](#)



Management

Ann S. Michaels, Benjamin Mittman, C. Robert Carlson
January 1976 **ACM Computing Surveys (CSUR)**, Volume 8 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(2.06 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

16 Early user---system interaction for database selection in massive domain-specific online environments

 Jack G. Conrad, Joanne R. S. Claussen
January 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(845.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


The continued growth of very large data environments such as Westlaw and Dialog, in addition to the World Wide Web, increases the importance of effective and efficient database selection and searching. Current research focuses largely on completely autonomous and automatic selection, searching, and results merging in distributed environments. This fully automatic approach has significant deficiencies, including reliance upon thresholds below which databases with relevant documents are not search ...

Keywords: Database selection, metadata for retrieval, structuring information to aid search and navigation, user interaction

17 Model-driven development of Web applications: the AutoWeb system

 Piero Fraternali, Paolo Paolini
October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4


Publisher: ACM Press

Full text available:  [pdf\(6.94 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

Keywords: HTML, WWW, application, development, intranet, modeling

18 Statistical profile estimation in database systems

 Michael V. Mannino, Paicheng Chu, Thomas Sager
September 1988 **ACM Computing Surveys (CSUR)**, Volume 20 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(2.94 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A statistical profile summarizes the instances of a database. It describes aspects such as the number of tuples, the number of values, the distribution of values, the correlation between value sets, and the distribution of tuples among secondary storage units. Estimation of database profiles is critical in the problems of query optimization, physical database design, and database performance prediction. This paper describes a model of a database of profile, relates this model to estimating ...

19 [A configurable type hierarchy index for OODB](#)

Thomas A. Mueck, Martin L. Polaschek

November 1997 **The VLDB Journal — The International Journal on Very Large Data**

Bases, Volume 6 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(411.47 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

With respect to the specific requirements of advanced OODB applications, index data structures for type hierarchies in OODBMS have to provide efficient support for multiattribute queries and have to allow index optimization for a particular query profile. We describe the *multikey type index* and an efficient implementation of this indexing scheme. It meets both requirements: in addition to its multiattribute query capabilities it is designed as a mediator between two standard design altern ...

Keywords: Access methods, Indexing, Multiple inheritance, OODB, Type hierarchies

20 [Deadlock detection in distributed database systems: a new algorithm and a comparative performance analysis](#)

Natalija Krivokapić, Alfons Kemper, Ehud Gudes

October 1999 **The VLDB Journal — The International Journal on Very Large Data**

Bases, Volume 8 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(289.96 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper attempts a comprehensive study of deadlock detection in distributed database systems. First, the two predominant deadlock models in these systems and the four different distributed deadlock detection approaches are discussed. Afterwards, a new deadlock detection algorithm is presented. The algorithm is based on dynamically creating *deadlock detection agents* (DDAs), each being responsible for detecting deadlocks in one connected component of the global wait-for-graph (WFG). The ...





Keywords: Comparative performance analysis, Deadlock detection, Distributed database systems, Simulation study

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Relevance scale ☐ ☐ ☐ ☐ ☐

21 [An integrated approach to engineer and enforce context constraints in RBAC environments](#)



Mark Strembeck, Gustaf Neumann

August 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7 Issue 3

Publisher: ACM Press

Full text available: [pdf\(3.06 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present an approach that uses special purpose role-based access control (RBAC) constraints to base certain access control decisions on context information. In our approach a *context constraint* is defined as a dynamic RBAC constraint that checks the actual values of one or more contextual attributes for predefined conditions. If these conditions are satisfied, the corresponding access request can be permitted. Accordingly, a *conditional permission* is an RBAC permission that is co ...

Keywords: Context-dependent access control, constraints engineering, context constraints, role-based access control

22 [Manageability, availability, and performance in porcupine: a highly scalable, cluster-based mail service](#)



Yasushi Saito, Brian N. Bershad, Henry M. Levy

August 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 3

Publisher: ACM Press

Full text available: [pdf\(2.52 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the motivation, design and performance of Porcupine, a scalable mail server. The goal of Porcupine is to provide a highly available and scalable electronic mail service using a large cluster of commodity PCs. We designed Porcupine to be easy to manage by emphasizing dynamic load balancing, automatic configuration, and graceful degradation in the presence of failures. Key to the system's manageability, availability, and performance is that sessions, data, and underlying ...

Keywords: cluster, distributed systems, email, group membership protocol, load balancing, replication

23 A publish/subscribe CORBA persistent state service prototype

C. Liebig, M. Cilia, M. Betz, A. Buchmann

April 2000 **IFIP/ACM International Conference on Distributed systems platforms**

Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(283.92 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

An important class of information dissemination applications requires 1:n communication and access to persistent datastores. CORBA's new Persistent State Service combined with messaging capabilities offer the possibility of efficiently realizing information brokers between data sources and CORBA clients. In this paper we present a prototype implementation of the PSS that exploits the reliable multicast capabilities of an existing middleware platform. This publish/subscribe architecture makes ...

24 Design and evaluation of a replicated database for mobile systems

S. Palazzo, A. Puliafito, M. Scarpa

March 2000 **Wireless Networks**, Volume 6 Issue 2

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(251.84 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The new generation mobile systems are anticipated to provide mobile users with new broadband services such as wireless multimedia, including real-time video and high-speed data. In these systems, the requirement on service transparency placed by the handling of mobility, both personal and terminal, implies a remarkable increase in the complexity of data management. Therefore, appropriate distributed databases ∥DDB) must be designed to guarantee speed in the processing an ...

25 Efficiently serving dynamic data at highly accessed web sites

James R. Challenger, Paul Dantzig, Arun Iyengar, Mark S. Squillante, Li Zhang

April 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 2


Publisher: IEEE Press

Full text available:  [pdf\(499.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present architectures and algorithms for efficiently serving dynamic data at highly accessed Web sites together with the results of an analysis motivating our design and quantifying its performance benefits. This includes algorithms for keeping cached data consistent so that dynamic pages can be cached at the Web server and dynamic content can be served at the performance level of static content. We show that our system design is able to achieve cache hit ratios close to 100% for cached data ...


Keywords: caching, dynamic content, performance analysis, prefetching, stochastic models, web sites

26 Query evaluation techniques for large databases

 Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(9.37 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...


Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

27 Technical Papers: Web user clustering from access log using belief function

 Yunjuan Xie, Vir V. Phoha

October 2001 **Proceedings of the 1st international conference on Knowledge capture K-CAP '01**


Publisher: ACM Press

Full text available:  [pdf\(200.21 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

In this work, we present a novel approach to clustering Web site users into different groups and generating common user profiles. These profiles can be used to make recommendations, personalize Web sites, and for other uses such as targeting users for advertising. By using the concept of mass distribution in Dempster-Shafer's theory, the belief function similarity measure in our algorithm adds to the clustering task the ability to capture the uncertainty among Web user's navigation behavior. Our ...

Keywords: Dempster-Shafer, access log, clustering, common user profile, personalization, web mining

28 A secure and private system for subscription-based remote services

 Pino Persiano, Ivan Visconti

November 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(241.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we study privacy issues regarding the use of the SSL/TLS protocol and X.509 certificates. Our main attention is placed on subscription-based remote services (e.g., subscription to newspapers and databases) where the service manager charges a flat fee for a period of time independent of the actual number of times the service is requested. We start by pointing out that restricting the access to such services by using X.509 certificates and the SSL/TLS protocol, while preserving the in ...

Keywords: Access control, anonymity, cryptographic algorithms and protocols, privacy, world-wide web

29 Effective access to large audiovisual assets based on user preferences

 S. Ioannou, G. Moschovitis, K. Ntalianis, K. Karpouzis, S. Kollias

November 2000 **Proceedings of the 2000 ACM workshops on Multimedia**

Publisher: ACM Press

Full text available:  [pdf\(1.01 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Current multimedia databases contain a wealth of information in the form of audiovisual, as well as text data. Even though efficient search algorithms have been developed for either media, there still exists the need for abstract presentation and summarization of the results of database users' queries. Moreover, multimedia retrieval systems should be capable of providing the user with additional information related to the specific subject of the query, as well as suggest other topics which us ...

Keywords: multimedia databases, query expansion, text-based search, user profiling,

web access

30 Migrating to role-based access control



Kami Brooks

October 1999 **Proceedings of the fourth ACM workshop on Role-based access control**

Publisher: ACM Press

Full text available: pdf(1.22 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: Tivoli Management Environment, enterprise systems management, migration, role-based access control, security management

31 Special issue on prototypes of deductive database systems: The aditi deductive database system

Jayen Vaghani, Kotagiri Ramamohanarao, David B. Kemp, Zoltan Somogyi, Peter J. Stuckey, Tim S. Leask, James Harland

April 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 3 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(2.67 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Deductive databases generalize relational databases by providing support for recursive views and non-atomic data. Aditi is a deductive system based on the client-server model; it is inherently multi-user and capable of exploiting parallelism on shared-memory multiprocessors. The back-end uses relational technology for efficiency in the management of disk-based data and uses optimization algorithms especially developed for the bottom-up evaluation of logical queries involving recursion. The front ...

Keywords: implementation, logic, multi-user, parallelism, relational database

32 Constraints: An approach to engineer and enforce context constraints in an RBAC environment



Gustaf Neumann, Mark Strembeck

June 2003 **Proceedings of the eighth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available: pdf(377.68 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an approach that uses special purpose RBAC constraints to base certain access control decisions on context information. In our approach a *context constraint* is defined as a dynamic RBAC constraint that checks the actual values of one or more contextual attributes for predefined conditions. If these conditions are satisfied, the corresponding access request can be permitted. Accordingly, a *conditional permission* is an RBAC permission which is constrained by one o ...


33 Manageability, availability and performance in Porcupine: a highly scalable, cluster-based mail service



Yasushi Saito, Brian N. Bershad, Henry M. Levy

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(1.62 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the motivation, design, and performance of Porcupine, a scalable mail server. The goal of Porcupine is to provide a highly available and scalable electronic mail service using a large cluster of commodity PCs. We designed Porcupine to be easy to manage by emphasizing dynamic load balancing, automatic configuration, and graceful degradation in the presence of failures. Key to the system's manageability, availability, and performance is that sessions, data, and underlying serv ...

34 [Streams, structures, spaces, scenarios, societies \(5s\): A formal model for digital libraries](#)



Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp
April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2
Publisher: ACM Press

Full text available:  [pdf\(316.85 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, and Societies (5S), which allow us to define digital libraries rigorously and usefully. Streams are sequences of arbitrary items used to describe both static and dynamic (e.g., video) content. Structures can be viewed as labeled directed gra ...

Keywords: applications., definitions, foundations, taxonomy

35 [Labels and event processes in the asbestos operating system](#)



Petros Efstathopoulos, Maxwell Krohn, Steve VanDeBogart, Cliff Frey, David Ziegler, Eddie Kohler, David Mazières, Frans Kaashoek, Robert Morris
October 2005 **ACM SIGOPS Operating Systems Review , Proceedings of the twentieth ACM symposium on Operating systems principles SOSP '05**, Volume 39 Issue 5
Publisher: ACM Press

Full text available:  [pdf\(258.58 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Asbestos, a new prototype operating system, provides novel labeling and isolation mechanisms that help contain the effects of exploitable software flaws. Applications can express a wide range of policies with Asbestos's kernel-enforced label mechanism, including controls on inter-process communication and system-wide information flow. A new event process abstraction provides lightweight, isolated contexts within a single process, allowing the same process to act on behalf of multiple users while ...

Keywords: event processes, information flow, labels, mandatory access control, secure web servers

36 [Proceedings of the SIGNUM conference on the programming environment for development of numerical software](#)



March 1979 **ACM SIGNUM Newsletter**, Volume 14 Issue 1
Publisher: ACM Press

Full text available:  [pdf\(5.02 MB\)](#)

Additional Information: [full citation](#)

37 [Unlinkable serial transactions: protocols and applications](#)





Stuart G. Stubblebine, Paul F. Syverson, David M. Goldschlag
November 1999 **ACM Transactions on Information and System Security (TISSEC)**,

Volume 2 Issue 4

Publisher: ACM Press

Full text available: pdf(184.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We present a protocol for unlinkable serial transactions suitable for a variety of network-based subscription services. It is the first protocol to use cryptographic blinding to enable subscription services. The protocol prevents the service from tracking the behavior of its customers, while protecting the service vendor from abuse due to simultaneous or cloned use by a single subscriber. Our basic protocol structure and recovery protocol are robust against failure in protocol termination. ...

Keywords: anonymity, blinding, cryptographic protocols, unlinkable serial transactions

38 Semantics-based concurrency control: beyond commutativity



B. R. Badrinath, Krithi Ramamritham

March 1992 **ACM Transactions on Database Systems (TODS)**, Volume 17 Issue 1

Publisher: ACM Press

Full text available: pdf(2.15 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The concurrency of transactions executing on atomic data types can be enhanced through the use of semantic information about operations defined on these types. Hitherto, commutativity of operations has been exploited to provide enhanced concurrency while avoiding cascading aborts. We have identified a property known as recoverability which can be used to decrease the delay involved in processing noncommuting operations while still avoiding cascading aborts. When an invoked ...

Keywords: concurrency control, semantic information

39 Per-user profile replication in mobile environments: algorithms, analysis, and simulation results

Narayanan Shivakumar, Jan Jannink, Jennifer Widom

October 1997 **Mobile Networks and Applications**, Volume 2 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: pdf(1.84 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We consider per-user profile replication as a mechanism for faster location lookup of mobile users in a personal communications service system. We present a minimum-cost maximum-flow based algorithm to compute the set of sites at which a user profile should be replicated given known calling and user mobility patterns. We show the costs and benefits of our replication algorithm against previous location lookup approaches through analysis. We also simulate our algorithm against other location ...

40 A role-based access control model and reference implementation within a corporate intranet



David F. Ferraiolo, John F. Barkley, D. Richard Kuhn

February 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 1

Publisher: ACM Press

Full text available: pdf(252.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes NIST's enhanced RBAC model and our approach to designing and implementing RBAC features for networked Web servers. The RBAC model formalized in this paper is based on the properties that were first described in Ferraiolo and Kuhn [1992] and Ferraiolo et al. [1995], with adjustments resulting from experience gained by prototype implementations, market analysis, and observations made by Jansen [1988] and Hoffman [1996]. The implementation of RBAC for the Web (RBAC/Web) p ...





Keywords: RBAC, Web arrows, World Wide Web, access control, authorization management, role based access

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41 [A structural view of the Cedar programming environment](#)



Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann

August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 8 Issue 4

Publisher: ACM Press

Full text available: [pdf\(6.32 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

42 [Secure virtual enclaves: Supporting coalition use of distributed application technologies](#)



May 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4

Issue 2

Publisher: ACM Press

Full text available: [pdf\(462.10 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

The Secure Virtual Enclaves (SVE) collaboration infrastructure allows multiple organizations to share their distributed application objects, while respecting organizational autonomy over local resources. The infrastructure is transparent to applications, which may be accessed via a web server, or may be based on Java or Microsoft's DCOM. The SVE infrastructure is implemented in middleware, with no modifications to COTS operating systems or network protocols. The system enables dynamic updates to ...

Keywords: Access control, coalition, collaborative system, group communication, middleware, security policy

43 [The evolution of the Sperry Univac 1100 series: a history, analysis, and projection](#)



B. R. Borgerson, M. L. Hanson, P. A. Hartley

January 1978 **Communications of the ACM**, Volume 21 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(1.89 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The 1100 series systems are Sperry Univac's large-scale mainframe computer systems. Beginning with the 1107 in 1962, the 1100 series has progressed through a succession of eight compatible computer models to the latest system, the 1100/80, introduced in 1977. The 1100 series hardware architecture is based on a 36-bit word, ones complement structure which obtains one operand from storage and one from a high-speed register, or two operands from high-speed registers. The 1100 Operating System ...

Keywords: 1100 computer series, computer architecture, data management systems, end user facilities, executive control software, multiprocessing, multiprogramming, operating system, programming languages

44 [Disconnected processes, mechanisms and architecture for mobile e-business](#)

J. Sairamesh, S. Goh, I. Stanoi, S. Padmanabhan, C. S. Li

December 2004 **Mobile Networks and Applications**, Volume 9 Issue 6

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(625.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the tremendous advances in hand-held computing and communication capabilities, rapid proliferation of mobile devices, and decreasing device costs, we are seeing a growth in mobile e-business in various consumer and business markets. In this paper, we present a novel architecture and framework for end-to-end mobile e-business applications (e.g., point of sales). The architecture takes into consideration disconnection, application context, synchronization, transactions and failure recovery ...

Keywords: failure recovery, mobile commerce, mobile disconnection, mobile e-business, remote disconnection, seamless business transaction

45 [The Integrated Dictionary/Directory System](#)


 Frank W. Allen, Mary E. S. Loomis, Michael V. Mannino

June 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 2

Publisher: ACM Press


Full text available:  [pdf\(2.71 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

46 [Human-computer interface development: concepts and systems for its management](#)

 H. Rex Hartson, Deborah Hix

March 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(7.97 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...

47 [The clearinghouse: a decentralized agent for locating named objects in a distributed environment](#)

 Derek C. Oppen, Yogen K. Dalal

July 1983 **ACM Transactions on Information Systems (TOIS)**, Volume 1 Issue 3

Publisher: ACM Press


Full text available:  [pdf\(1.73 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

48 Experiences with network-based user agents for mobile applications

Thomas F. La Porta, Thomas Woo, Krishan K. Sabnani, Ramachandran Ramjee

August 1998 **Mobile Networks and Applications**, Volume 3 Issue 2

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(631.57 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Wireless networks are characterized by simple end devices and limited bandwidth. One solution to address these and other limitations of the wireless mobile environment that has been widely pursued is the placement of proxies, or agents, inside the network to assist with application processing that would normally take place on end devices. These agents can additionally manipulate data to reduce bandwidth requirements and assist in providing services. The design and implementation of a user a ...

49 Two case studies of open source software development: Apache and Mozilla

July 2002 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,

Volume 11 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(373.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

According to its proponents, open source style software development has the capacity to compete successfully, and perhaps in many cases displace, traditional commercial development methods. In order to begin investigating such claims, we examine data from two major open source projects, the Apache web server and the Mozilla browser. By using email archives of source code change history and problem reports we quantify aspects of developer participation, core team size, code ownership, productivit ...


Keywords: Apache, Mozilla, Open source software, code ownership, defect density, repair interval

50 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid

June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(233.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile computing, mobile data, mobility awareness, survey, system application

51 Context-aware Web Information Systems

Aleksander Binemann-Zdanowicz, Roland Kaschek, Klaus-Dieter Schewe, Bernhard Thalheim
January 2004 **Proceedings of the first Asian-Pacific conference on Conceptual modelling - Volume 31 CRPIT '04**

Publisher: Australian Computer Society, Inc.

Full text available:  pdf(413.81 KB) Additional Information: [full citation](#), [abstract](#), [references](#)


Apart from completeness usability, performance and maintainability are the key quality aspects for Web information systems. Considering usability as key implies taking usage processes into account right from the beginning of systems development. Context-awareness appears as a promising idea for increasing usability of Web Information Systems. In the present paper we propose an approach to context-awareness of Web Information Systems that systematically distinguishes among the various important k ...

Keywords: SiteLang, Web Information Systems, Web services, context-aware information systems, media objects

52 mPERSONA: personalized portals for the wireless user: An agent approach

Christoforos Panayiotou, George Samaras
December 2004 **Mobile Networks and Applications**, Volume 9 Issue 6


Publisher: Kluwer Academic Publishers

Full text available:  pdf(1.30 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The needs of the wireless and mobile user regarding information access and services are quite different than those of the desktop user. This need is not about browsing the Web but about receiving personalized services that are highly sensitive to the immediate environment and requirements of the user. Personalization appears to be the most appropriate solution to this need. It comes into aid by creating personalized portals that are specific for the wireless user, which (a) are focus on the l ...

Keywords: mobile agents, mobile computing, personalization, pervasive computing, wireless portals

53 Dynamic Access Control: An access control model for dynamic client-side content

 Adam Hess, Kent E. Seamons

June 2003 **Proceedings of the eighth ACM symposium on Access control models and technologies**


Publisher: ACM Press

Full text available:  pdf(608.50 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The focus of access control in client/server environments is on protecting sensitive server resources by determining whether or not a client is authorized to access those resources. The set of resources are usually static, and an access control policy associated with each resource specifies who is authorized to access the resource. In this paper, we turn the traditional client/server access control model on its head, and address how to protect the sensitive content that clients disclose to serve ...


Keywords: access control, authentication, credentials, trust negotiation

54 Office-by-example: an integrated office system and database manager

 Kyu-Young Whang, Art Ammann, Anthony Bolmarcich, Maria Hanrahan, Guy Hochgesang, Kuan-Tsae Huang, Al Khorasani, Ravi Krishnamurthy, Gary Sockut, Paula Sweeney, Vance Waddle, Moshé Zloof

October 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(2.86 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Office-by-Example (OBE) is an integrated office information system that has been under development at IBM Research. OBE, an extension of Query-by-Example, supports various office features such as database tables, word processing, electronic mail, graphics, images, and so forth. These seemingly heterogeneous features are integrated through a language feature called example elements. Applications involving example elements are processed by the database manager, an integrated ...

55 [An embedded domain-specific language for type-safe server-side web scripting](#)

Peter Thiemann

February 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(336.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



WASH/CGI is an embedded domain-specific language for server-side Web scripting. Due to its reliance on the strongly typed, purely functional programming language Haskell as a host language, it is highly flexible and---at the same time---it provides extensive guarantees due to its pervasive use of type information. WASH/CGI can be structured into a number of sublanguages addressing different aspects of the application. The *document sublanguage* provides tools for the generation of parameteri ...

Keywords: Interactive Web services, Web programming

56 [The berkeley UNIX consultant project](#)

Robert Wilensky, David N. Chin, Marc Luria, James Martin, James Mayfield, Dekai Wu
December 1988 **Computational Linguistics**, Volume 14 Issue 4

Publisher: MIT Press

Full text available:  [pdf\(4.41 MB\)](#)  Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)
[Publisher Site](#)


UC (UNIX Consultant) is an intelligent, natural language interface that allows naive users to learn about the UNIX² operating system. UC was undertaken because the task was thought to be both a fertile domain for artificial intelligence (AI) research and a useful application of AI work in planning, reasoning, natural language processing, and knowledge representation. The current implementation of UC comprises the following components: a language analyzer, called ALANA, produces a repre ...

57 [Tools and approaches for developing data-intensive Web applications: a survey](#)

Piero Fraternali

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(524.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...

Keywords: HTML, Intranet, WWW, application, development

58 [Exploiting the non-determinism and asynchrony of set iterators to reduce aggregate](#)

[file I/O latency](#)

David C. Steere

October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue 5

Publisher: ACM Press

Full text available: [pdf \(1.87 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

59 [Computer security \(SEC\): Mediation security specification and enforcement for heterogeneous databases](#)

Li Yang, Raimund K. Ege, Huiqun Yu

March 2005 **Proceedings of the 2005 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: [pdf \(160.79 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Information sharing among heterogeneous databases requires increasing attention and poses a pressing need. Successful protection of information by an effective access control mechanism is a basic requirement for interoperation among heterogeneous data sources. However, most existing work on access control focuses on access control model and security related information, little effort is devoted to exploring access control on the semantic-related heterogeneous databases. No current work resolves ...

Keywords: RBAC, XML, mediation, security

60 [Experience with representing C++ program information in an object-oriented database](#)

Tamiya Onodera

October 1994 **ACM SIGPLAN Notices , Proceedings of the ninth annual conference on Object-oriented programming systems, language, and applications OOPSLA '94**, Volume 29 Issue 10

Publisher: ACM Press

Full text available: [pdf \(1.26 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Two major issues related to storing program information in an OODB are sharing and clustering. The former is important since it prevents the database from consuming excessive disk space, while the latter is crucial, since it keeps clients running without thrashing. In our database, objects are shared across multiple programs' translation units, and are clustered by combining three techniques, namely, birth-order, death-order, and sharing-oriented clusterings. An initial experiment shows tha ...

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Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Tim Leehane

September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services**

Publisher: ACM Press

Full text available: [pdf\(5.73 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

3 [Secure and selective dissemination of XML documents](#)

Elisa Bertino, Elena Ferrari

August 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 3

Publisher: ACM Press

Full text available: [pdf\(678.34 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

XML (*eXtensible Markup Language*) has emerged as a prevalent standard for document representation and exchange on the Web. It is often the case that XML documents contain information of different sensitivity degrees that must be selectively shared by (possibly large) user communities. There is thus the need for models and mechanisms enabling the specification and enforcement of access control policies for XML documents. Mechanisms are also required enabling a secure and selective dissemina ...

Keywords: Access control, XML, secure distribution

4 Computing curricula 2001



September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press

Full text available: pdf(613.63 KB)

.html(2.78 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

5 HTTP Cookies: Standards, privacy, and politics



David M. Kristol

November 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 2

Publisher: ACM Press

Full text available: pdf(390.38 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

How did we get from a world where cookies were something you ate and where "nontechies" were unaware of "Netscape cookies" to a world where cookies are a hot-button privacy issue for many computer users? This article describes how HTTP "cookies" work and how Netscape's original specification evolved into an IETF Proposed Standard. I also offer a personal perspective on how what began as a straightforward technical specification turned into a political flashpoint when it tried to address nontech ...

Keywords: Cookies, HTTP, World Wide Web, privacy, state management

6 XML access control: Access control of XML documents considering update operations



Chung-Hwan Lim, Seog Park, Sang H. Son

October 2003 **Proceedings of the 2003 ACM workshop on XML security**

Publisher: ACM Press

Full text available: pdf(298.78 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As a large quantity of information is presented in XML format on the Web, there are increasing demands for XML security. Until now, research on XML security has been focused on the security of data communication using digital signatures or encryption technologies. As XML is also used for a data representation of data storage, XML security comes to involve not only communication security but also managerial security. Managerial security is guaranteed through access control, but existing XML acces ...

Keywords: XML document, XML update, access control

7 Model-driven development of Web applications: the AutoWeb system



Piero Fraternali, Paolo Paolini

October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4

Publisher: ACM Press

Full text available: pdf(6.94 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

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Keywords: HTML, WWW, application, development, intranet, modeling

8 Draft report of the Federal Internetworking Requirements Panel, and selected responses

Diane Fountaine

April 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 2

Publisher: ACM Press

Full text available:  pdf(4.15 MB) Additional Information: [full citation](#), [index terms](#)

9 Early user---system interaction for database selection in massive domain-specific online environments

Jack G. Conrad, Joanne R. S. Claussen

January 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 1

Publisher: ACM Press

Full text available:  pdf(845.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The continued growth of very large data environments such as Westlaw and Dialog, in addition to the World Wide Web, increases the importance of effective and efficient database selection and searching. Current research focuses largely on completely autonomous and automatic selection, searching, and results merging in distributed environments. This fully automatic approach has significant deficiencies, including reliance upon thresholds below which databases with relevant documents are not search ...

Keywords: Database selection, metadata for retrieval, structuring information to aid search and navigation, user interaction

10 An embedded domain-specific language for type-safe server-side web scripting

Peter Thiemann

February 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 1

Publisher: ACM Press

Full text available:  pdf(336.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Keywords: Interactive Web services, Web programming

11 Special issue: AI in engineering

D. Sriram, R. Joobbani

April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available:  pdf(8.79 MB) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in


the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

12 A structural view of the Cedar programming environment

 Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann
August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 8 Issue 4

Publisher: ACM Press

Full text available:  pdf(6.32 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

13 An integrated approach to engineer and enforce context constraints in RBAC environments

 Mark Strembeck, Gustaf Neumann

August 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7
Issue 3

Publisher: ACM Press


Full text available:  pdf(3.06 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present an approach that uses special purpose role-based access control (RBAC) constraints to base certain access control decisions on context information. In our approach a *context constraint* is defined as a dynamic RBAC constraint that checks the actual values of one or more contextual attributes for predefined conditions. If these conditions are satisfied, the corresponding access request can be permitted. Accordingly, a *conditional permission* is an RBAC permission that is co ...


Keywords: Context-dependent access control, constraints engineering, context constraints, role-based access control

14 Effective access to large audiovisual assets based on user preferences

 S. Ioannou, G. Moschovitis, K. Ntalianis, K. Karpouzis, S. Kollias

November 2000 **Proceedings of the 2000 ACM workshops on Multimedia**

Publisher: ACM Press

Full text available:  pdf(1.01 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Current multimedia databases contain a wealth of information in the form of audiovisual, as well as text data. Even though efficient search algorithms have been developed for either media, there still exists the need for abstract presentation and summarization of the results of database users' queries. Moreover, multimedia retrieval systems should be capable of providing the user with additional information related to the specific subject of the query, as well as suggest other topics which us ...

Keywords: multimedia databases, query expansion, text-based search, user profiling, web access

15 Constraints: An approach to engineer and enforce context constraints in an RBAC environment



Gustaf Neumann, Mark Strembeck

June 2003 **Proceedings of the eighth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available: [pdf\(377.68 KB\)](#)

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16 [Client-server computing in mobile environments](#)



Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid

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Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, system application

17 [A publish/subscribe CORBA persistent state service prototype](#)

C. Liebig, M. Cilia, M. Betz, A. Buchmann

April 2000 **IFIP/ACM International Conference on Distributed systems platforms**

Publisher: Springer-Verlag New York, Inc.

Full text available: [pdf\(283.92 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

An important class of information dissemination applications requires 1:n communication and access to persistent datastores. CORBA's new Persistent State Service combined with messaging capabilities offer the possibility of efficiently realizing information brokers between data sources and CORBA clients. In this paper we present a prototype implementation of the PSS that exploits the reliable multicast capabilities of an existing middleware platform. This publish/subscribe architecture makes ...

18 [Inside a software design team: knowledge acquisition, sharing, and integration](#)



Diane B. Walz, Joyce J. Elam, Bill Curtis

October 1993 **Communications of the ACM**, Volume 36 Issue 10

Publisher: ACM Press

Full text available: [pdf\(4.84 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: case study, empirical studies of software development, requirements determination, software design teams, software management

19 Efficiently serving dynamic data at highly accessed web sites

James R. Challenger, Paul Dantzig, Arun Iyengar, Mark S. Squillante, Li Zhang

April 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 2


Publisher: IEEE Press

Full text available:  pdf (499.05 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present architectures and algorithms for efficiently serving dynamic data at highly accessed Web sites together with the results of an analysis motivating our design and quantifying its performance benefits. This includes algorithms for keeping cached data consistent so that dynamic pages can be cached at the Web server and dynamic content can be served at the performance level of static content. We show that our system design is able to achieve cache hit ratios close to 100% for cached data ...

Keywords: caching, dynamic content, performance analysis, prefetching, stochastic models, web sites

20 Dynamic Access Control: An access control model for dynamic client-side content

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Keywords: access control, authentication, credentials, trust negotiation

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- 4 [Computing curricula 2001](#)
September 2001 **Journal on Educational Resources in Computing (JERIC)**
Publisher: ACM Press
Full text available:  [pdf\(613.63 KB\)](#)  [.html\(2.78 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

- 5 [HTTP Cookies: Standards, privacy, and politics](#)
David M. Kristol
November 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 2
Publisher: ACM Press
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Publisher: ACM Press

Full text available:  pdf(336.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

WASH/CGI is an embedded domain-specific language for server-side Web scripting. Due to its reliance on the strongly typed, purely functional programming language Haskell as a host language, it is highly flexible and---at the same time---it provides extensive guarantees due to its pervasive use of type information. WASH/CGI can be structured into a number of sublanguages addressing different aspects of the application. The *document sublanguage* provides tools for the generation of parameteri ...

Keywords: Interactive Web services, Web programming

11 Special issue: AI in engineering

D. Sriram, R. Joobbani

April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available:  pdf(8.79 MB) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in


the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

12 A structural view of the Cedar programming environment

 Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann
August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 8 Issue 4

Publisher: ACM Press

Full text available:  pdf(6.32 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

13 An integrated approach to engineer and enforce context constraints in RBAC environments

 Mark Strembeck, Gustaf Neumann

August 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7
Issue 3

Publisher: ACM Press


Full text available:  pdf(3.06 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present an approach that uses special purpose role-based access control (RBAC) constraints to base certain access control decisions on context information. In our approach a *context constraint* is defined as a dynamic RBAC constraint that checks the actual values of one or more contextual attributes for predefined conditions. If these conditions are satisfied, the corresponding access request can be permitted. Accordingly, a *conditional permission* is an RBAC permission that is co ...


Keywords: Context-dependent access control, constraints engineering, context constraints, role-based access control

14 Effective access to large audiovisual assets based on user preferences

 S. Ioannou, G. Moschovitis, K. Ntalianis, K. Karpouzis, S. Kollias

November 2000 **Proceedings of the 2000 ACM workshops on Multimedia**

Publisher: ACM Press

Full text available:  pdf(1.01 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Current multimedia databases contain a wealth of information in the form of audiovisual, as well as text data. Even though efficient search algorithms have been developed for either media, there still exists the need for abstract presentation and summarization of the results of database users' queries. Moreover, multimedia retrieval systems should be capable of providing the user with additional information related to the specific subject of the query, as well as suggest other topics which us ...

Keywords: multimedia databases, query expansion, text-based search, user profiling, web access

15 Constraints: An approach to engineer and enforce context constraints in an RBAC environment



Gustaf Neumann, Mark Strembeck

June 2003 **Proceedings of the eighth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available: [pdf\(377.68 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an approach that uses special purpose RBAC constraints to base certain access control decisions on context information. In our approach a *context constraint* is defined as a dynamic RBAC constraint that checks the actual values of one or more contextual attributes for predefined conditions. If these conditions are satisfied, the corresponding access request can be permitted. Accordingly, a *conditional permission* is an RBAC permission which is constrained by one o ...

16 Client-server computing in mobile environments



Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid

June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Publisher: ACM Press

Full text available: [pdf\(233.31 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile computing, mobile data, mobility awareness, survey, system application

17 A publish/subscribe CORBA persistent state service prototype

C. Liebig, M. Cilia, M. Betz, A. Buchmann

April 2000 **IFIP/ACM International Conference on Distributed systems platforms**

Publisher: Springer-Verlag New York, Inc.

Full text available: [pdf\(283.92 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

An important class of information dissemination applications requires 1:n communication and access to persistent datastores. CORBA's new Persistent State Service combined with messaging capabilities offer the possibility of efficiently realizing information brokers between data sources and CORBA clients. In this paper we present a prototype implementation of the PSS that exploits the reliable multicast capabilities of an existing middleware platform. This publish/subscribe architecture makes ...

18 Inside a software design team: knowledge acquisition, sharing, and integration



Diane B. Walz, Joyce J. Elam, Bill Curtis

October 1993 **Communications of the ACM**, Volume 36 Issue 10

Publisher: ACM Press

Full text available: [pdf\(4.84 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: case study, empirical studies of software development, requirements determination, software design teams, software management

19 Efficiently serving dynamic data at highly accessed web sites

James R. Challenger, Paul Dantzig, Arun Iyengar, Mark S. Squillante, Li Zhang

April 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 2


Publisher: IEEE Press

Full text available:  pdf(499.05 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present architectures and algorithms for efficiently serving dynamic data at highly accessed Web sites together with the results of an analysis motivating our design and quantifying its performance benefits. This includes algorithms for keeping cached data consistent so that dynamic pages can be cached at the Web server and dynamic content can be served at the performance level of static content. We show that our system design is able to achieve cache hit ratios close to 100% for cached data ...


Keywords: caching, dynamic content, performance analysis, prefetching, stochastic models, web sites

20 Dynamic Access Control: An access control model for dynamic client-side content

 Adam Hess, Kent E. Seamons

June 2003 **Proceedings of the eighth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available:  pdf(608.50 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The focus of access control in client/server environments is on protecting sensitive server resources by determining whether or not a client is authorized to access those resources. The set of resources are usually static, and an access control policy associated with each resource specifies who is authorized to access the resource. In this paper, we turn the traditional client/server access control model on its head, and address how to protect the sensitive content that clients disclose to serve ...

Keywords: access control, authentication, credentials, trust negotiation

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